

***Your National Weather Service and
Emergency Management:
A Life Saving Partnership!***
February 2005 NEMA Conference

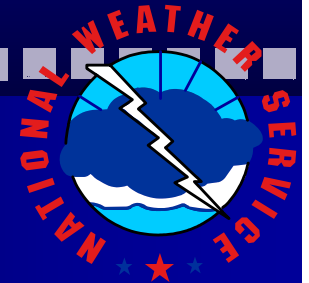
Bill Proenza
Regional Director
National Weather Service
Southern Region

Overview

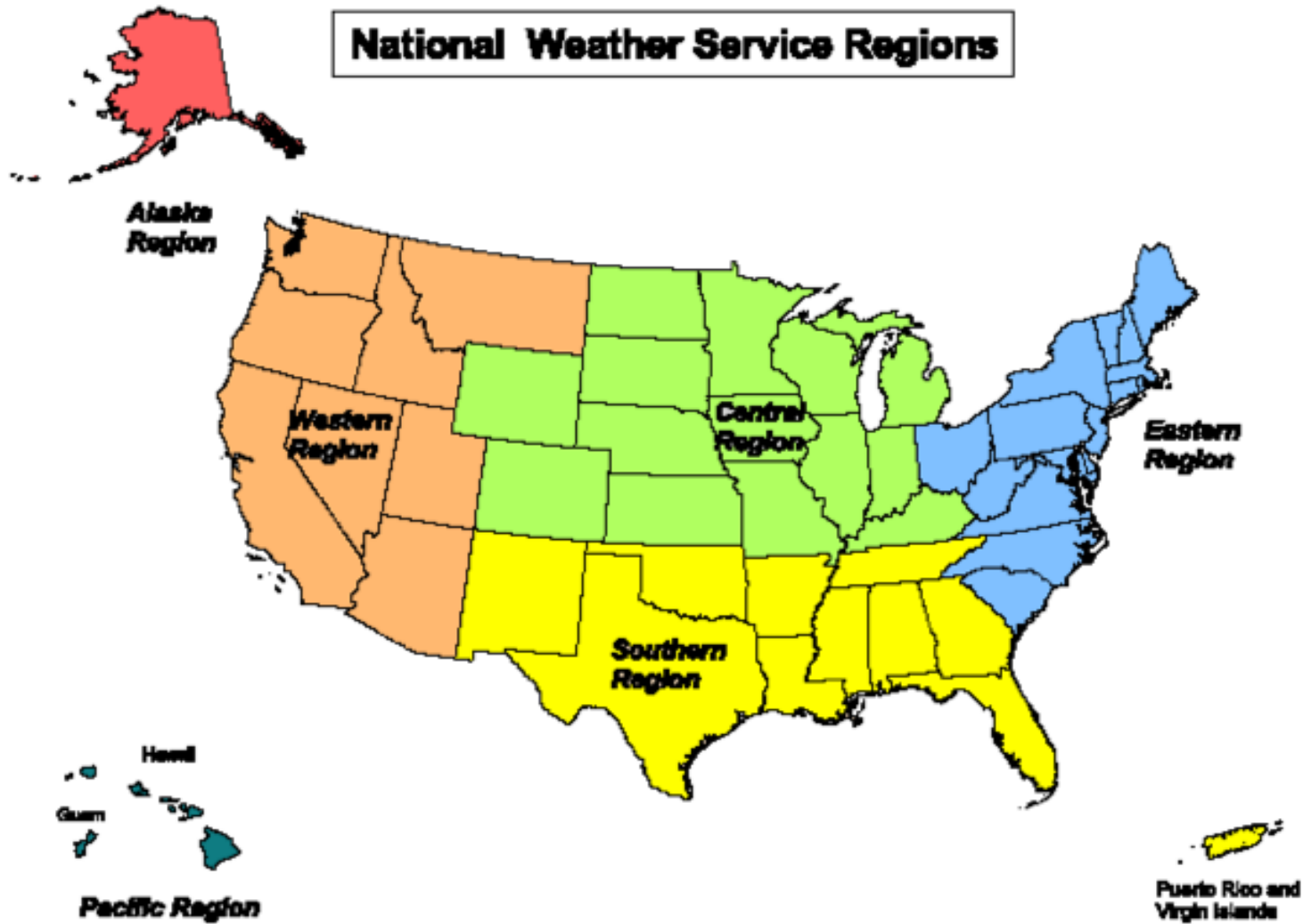
- The NWS and the Nation's Weather & Other Hazards
- The Tidal Wave aka Tsunami; The Forgotten Danger



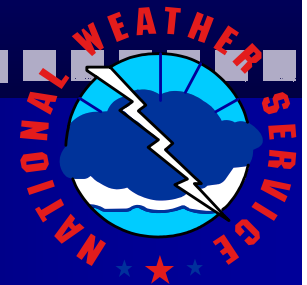
NWS SOUTHERN REGION
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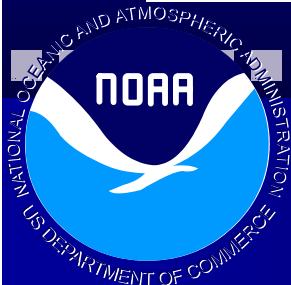
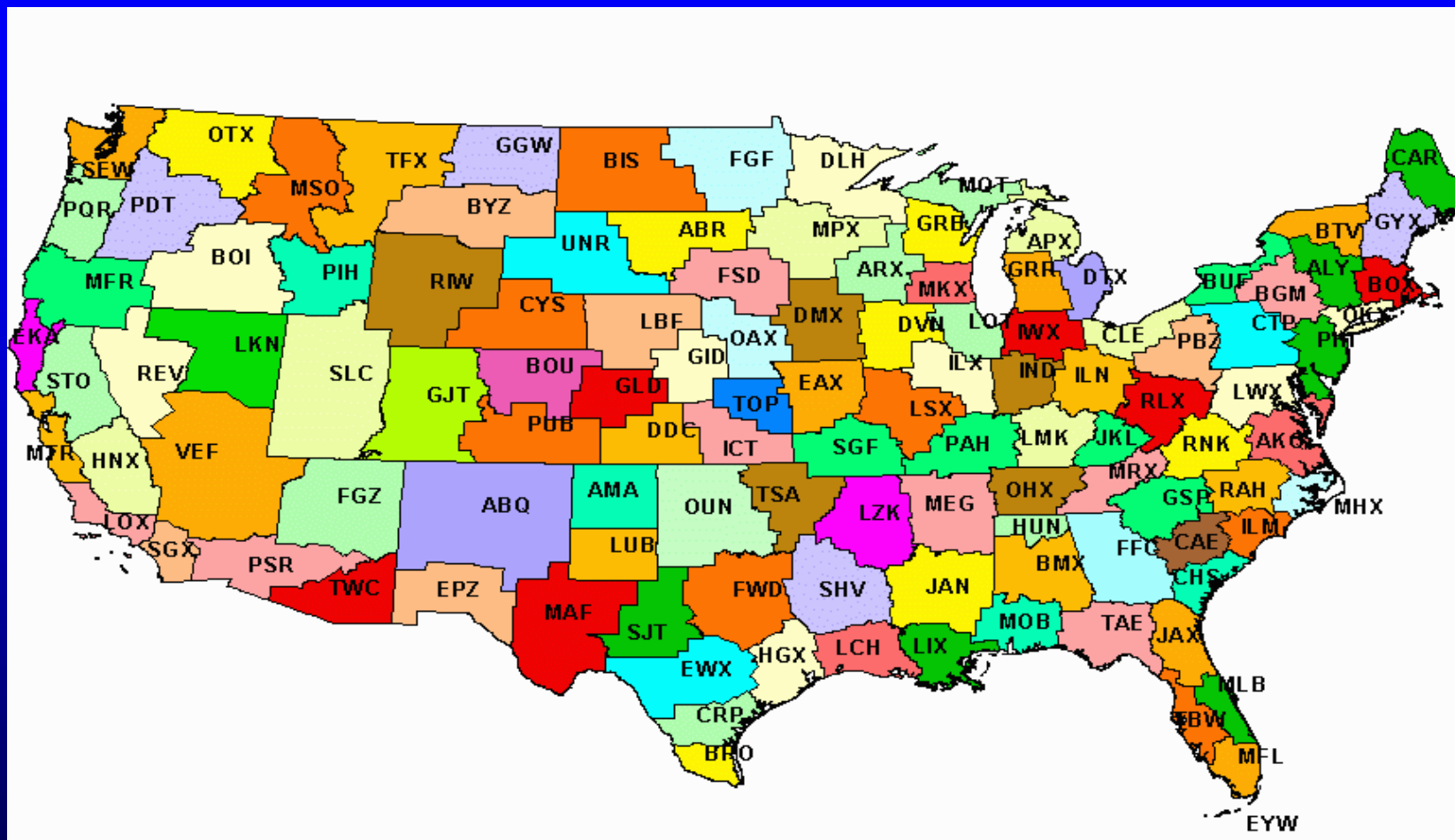
National Weather Service Regions



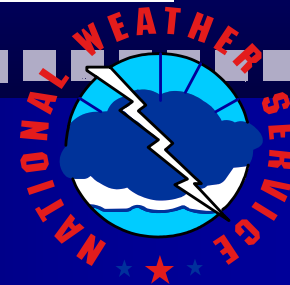
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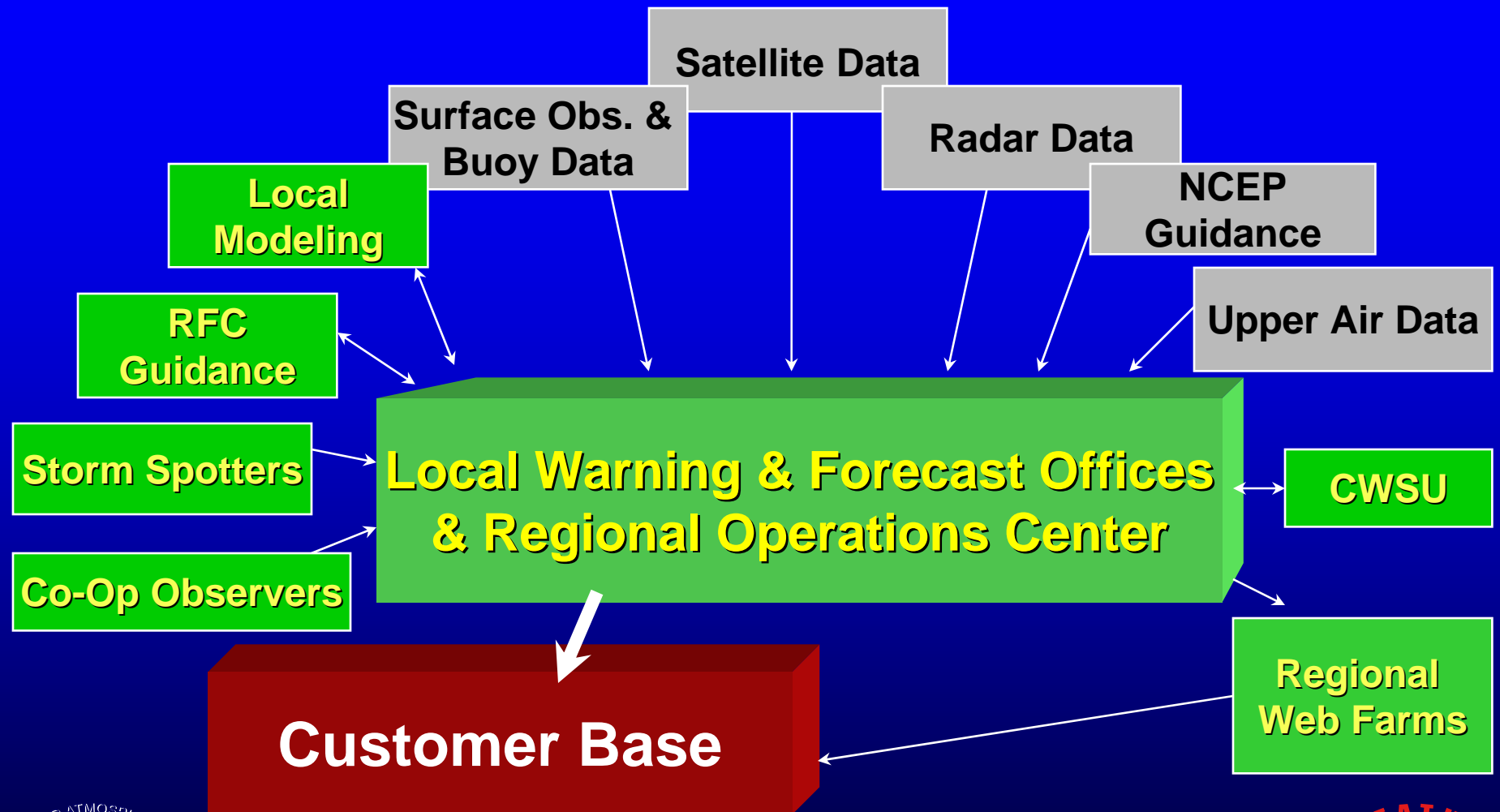
122 NWS Warning Forecast Offices



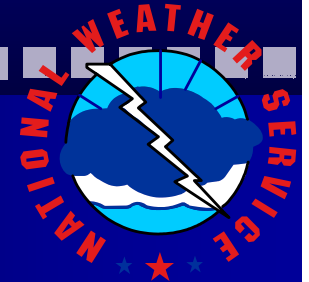
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NWS Information Flow



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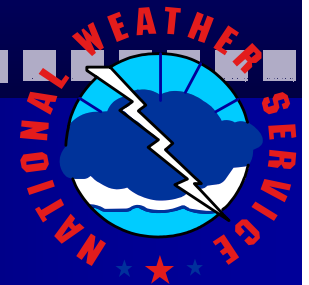
Benefits of Your Local WFO

Local Area Expertise For:

- More Accurate Forecasts and Warnings
- Outreach and Partnership with Emergency Management Community
 - **Public awareness supports our mission delivery**
- Greater Service to Public and Partners
- Better Climate Services
- Homeland Security – Weather Support 24/7

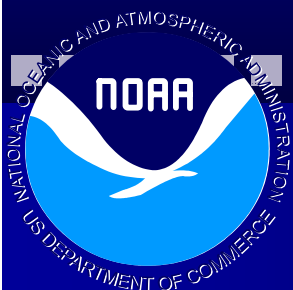


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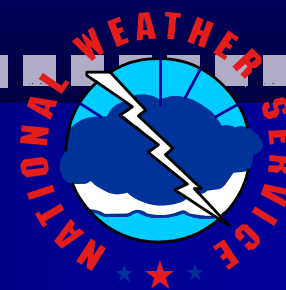


Regional Operations Center

- Federal/State/Local EM briefings
- NWS office coordination
- Staff deployments to threatened areas
- Supporting Emergency maintenance and equipment needs
- Media briefing & Post-event assessment & reporting

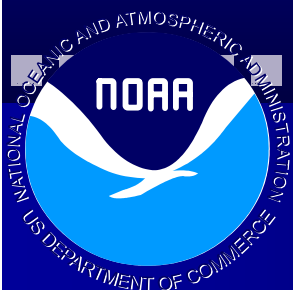
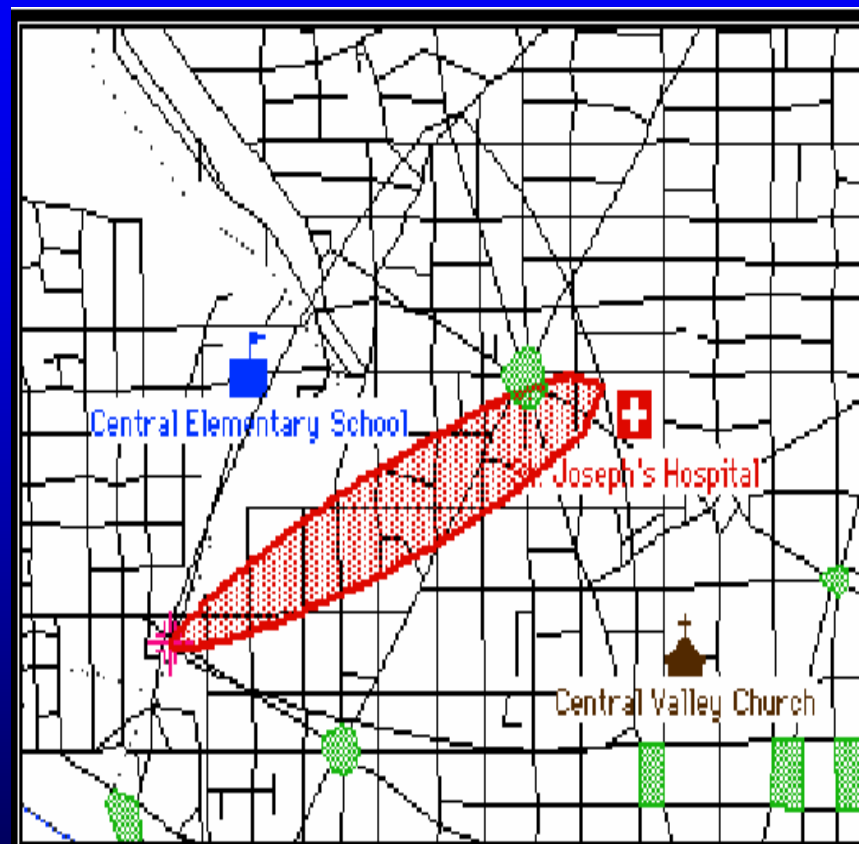


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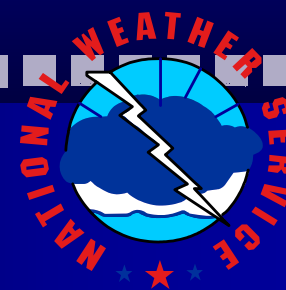


Homeland Security

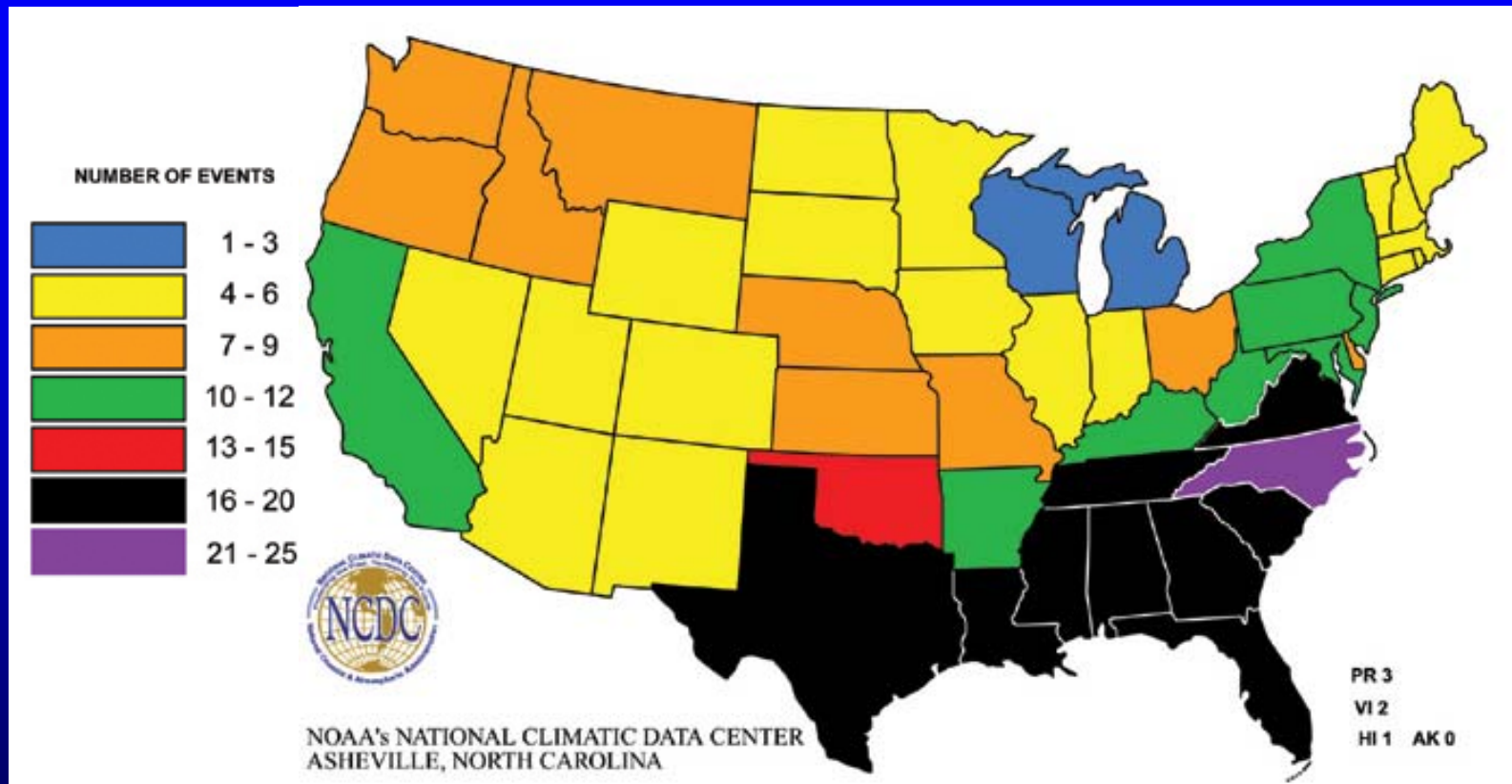
- NWS Local Offices provide key weather to Federal, State and Local agencies.
- High resolution local modeling solutions from WFOs.



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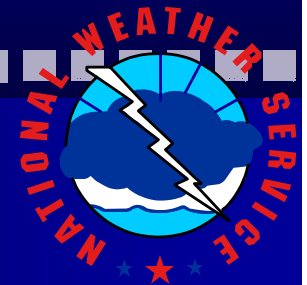
World's Most Active Weather!



Billion Dollar Weather Events, 1980-2004



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U.S. has the most Tornadoes

SR 3,236

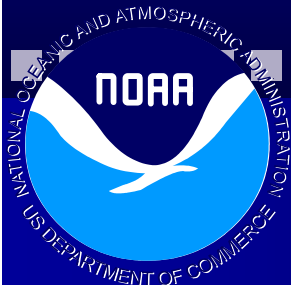
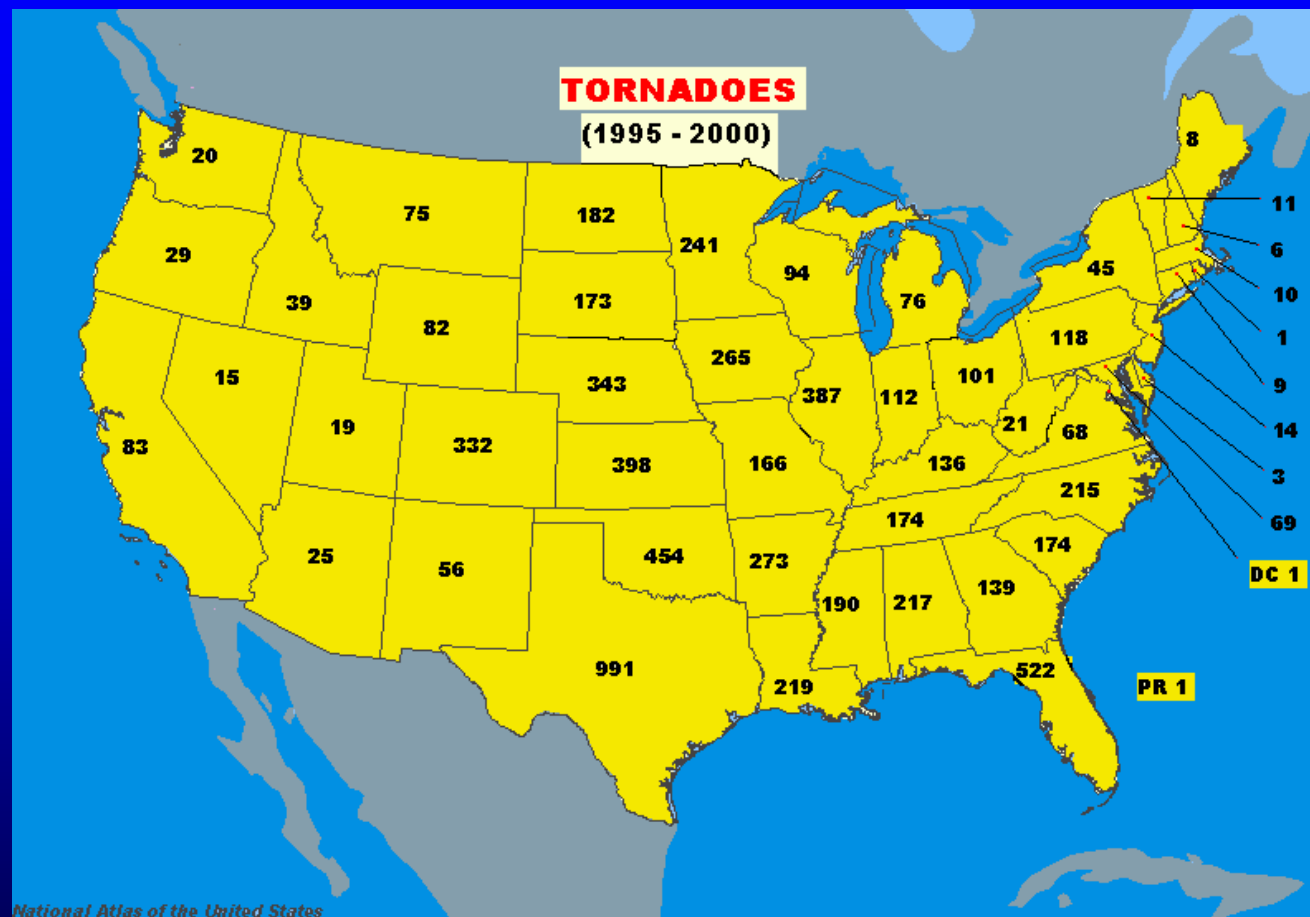
CR 2,987

ER 874

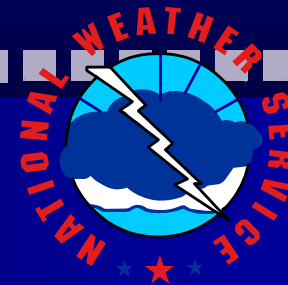
WR 305

TOT 7,402

(1995-2000)



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WFOs & EM Community Save Lives

April 1974 Super Outbreak

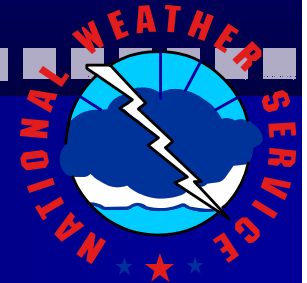
- Single largest 24 hour tornado outbreak
- 148 Tornadoes
- 330 Fatalities
- Up to 5 Minute Lead Time

May 2003 Outbreak

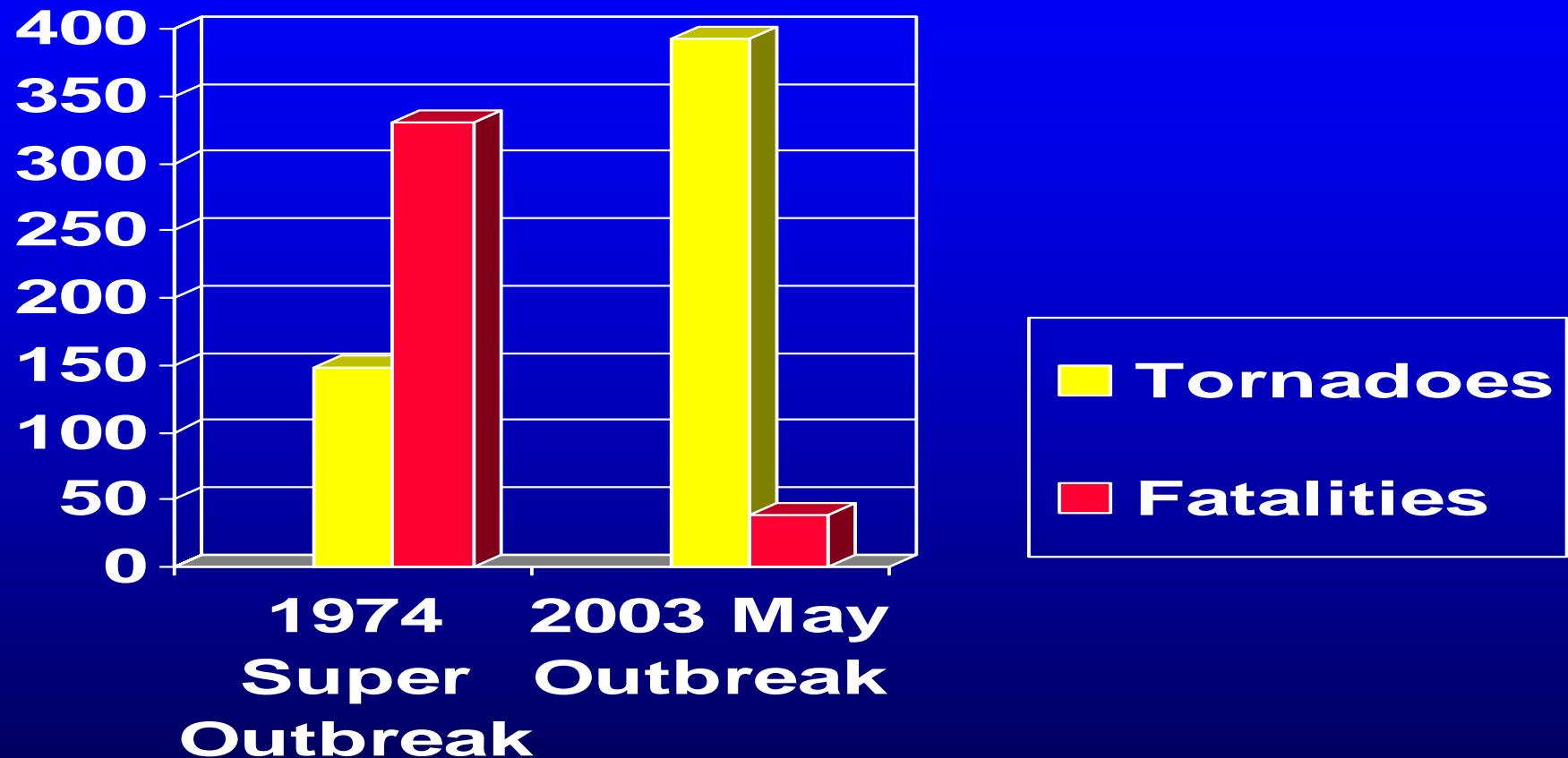
- Unprecedented in size & time (9 days)
- 340 Tornadoes
- 39 Fatalities
- Averaged **19 Minute** Lead Time



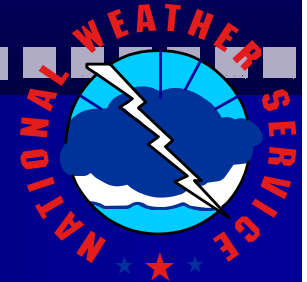
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Local WFOs Save Lives

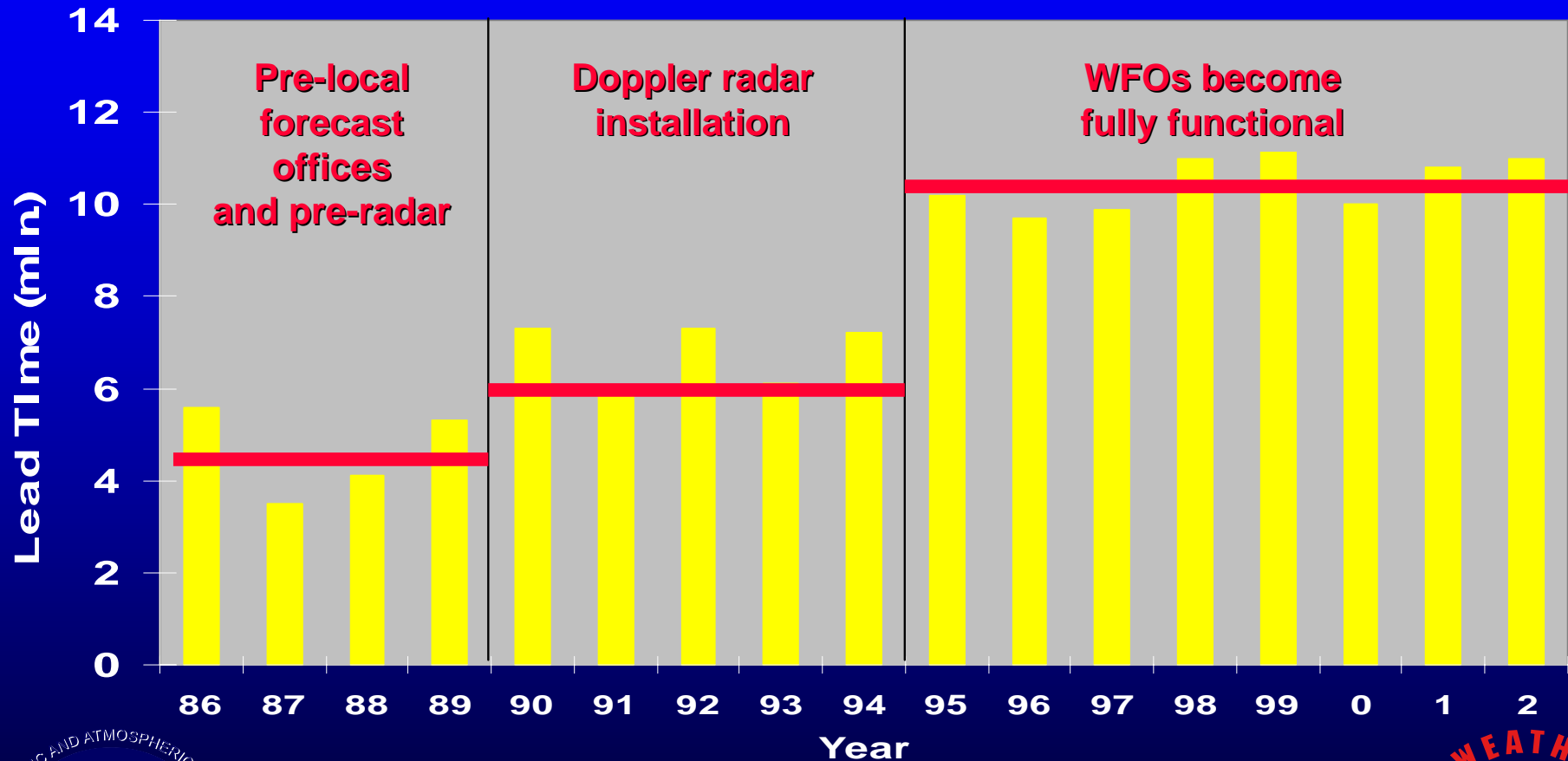


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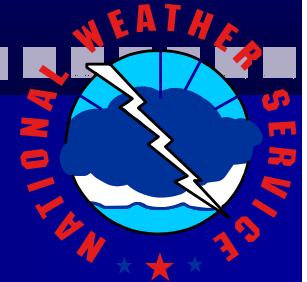


Local WFOs Save Lives

Tornado Warning Lead Time

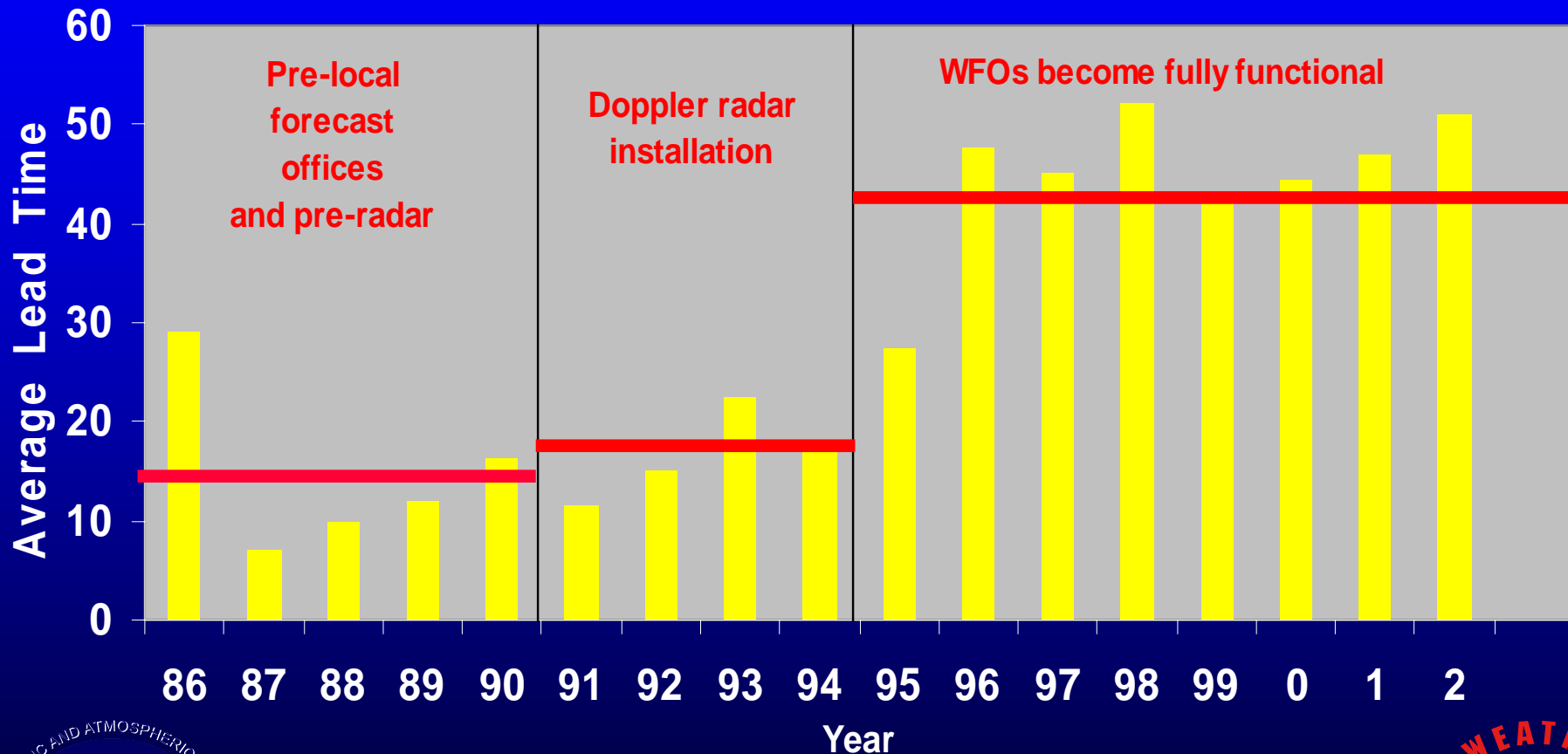


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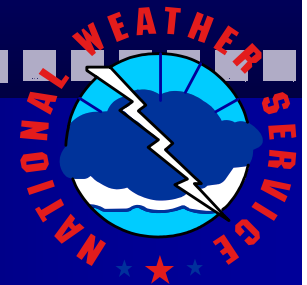


Local WFOs Save Lives

Flash Flood Warning Lead Time

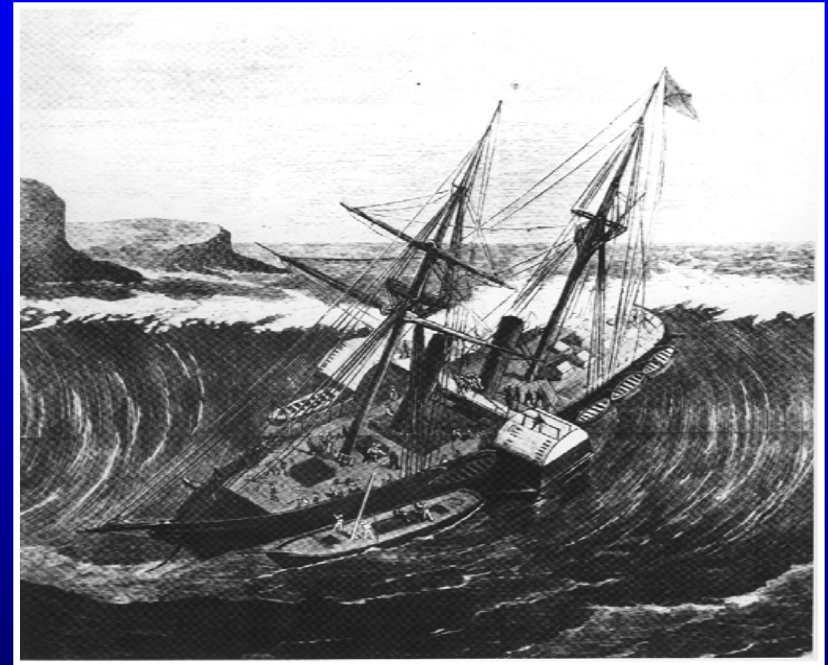


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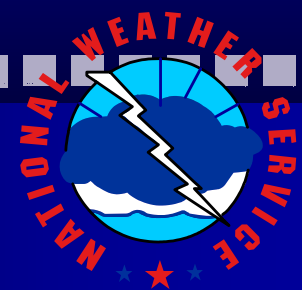


Distribution of Tsunamis in the World's Oceans

Location	%
Atlantic East Coast	1.6
Atlantic West Coast	0.4
Mediterranean	10.1
Caribbean	13.8
Bay of Bengal	0.8
East Indies	20.3
Oceania	25.4
Japan-Russia	18.6
Pacific East Coast	8.9

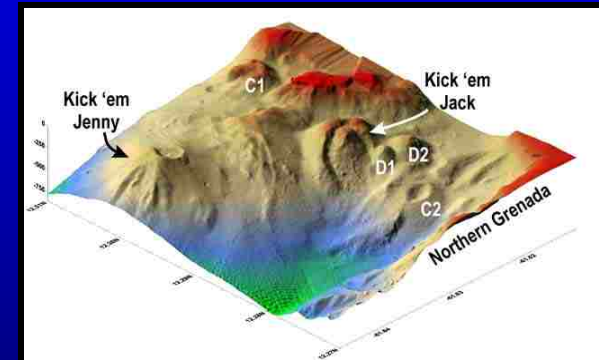
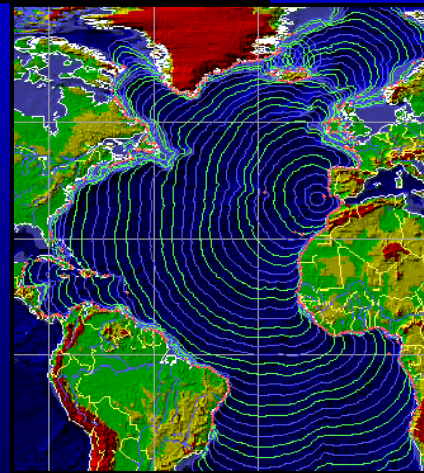
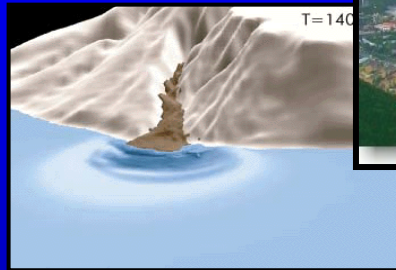


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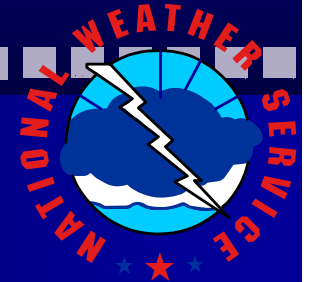


Atlantic Tsunami-genic Events

- Earthquake
- Landslide
- Submarine Volcano
- Tele-tsunami



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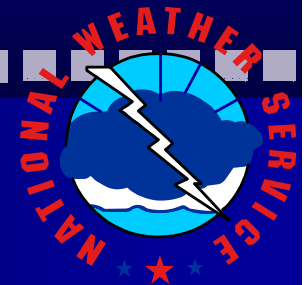


Western North Atlantic Tsunami Fatalities in last 150 Years

Date	Place	Fatalities
1853	Venezuela	600-4,000 (est.)*
1867	Virgin Islands	23
1882	Panama	75-100
1906	Jamaica	500
1918	Puerto Rico	91-100
1929	Canada	28
1946	Dominican Republic	1,790; 75
1991	Costa Rica	2
		2,584 TOTAL *not included



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Elements of Tsunami Warning System

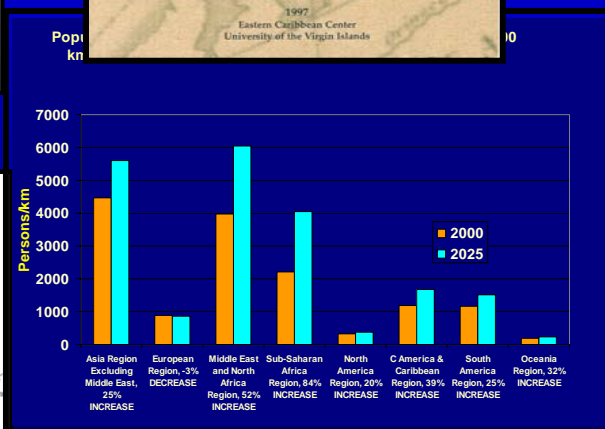
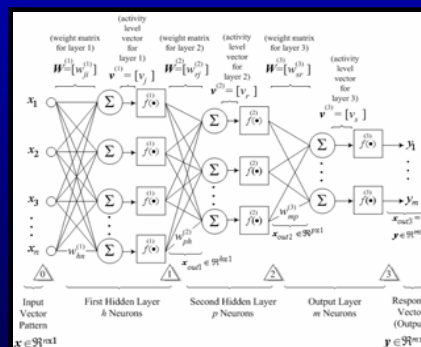
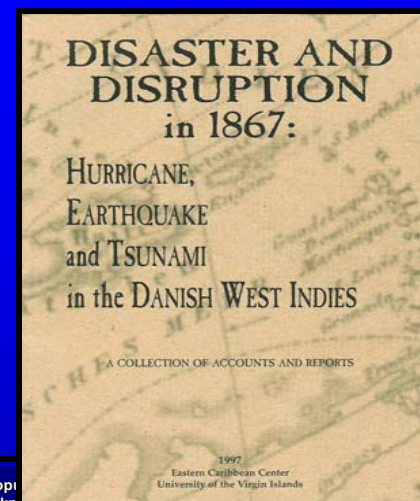
- Education

- Warning

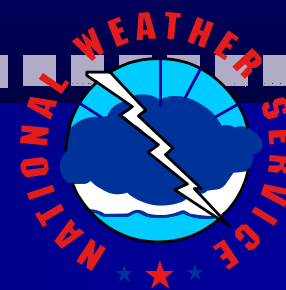
Seismic, Sea Level, Communications

- Community Preparedness

- Research



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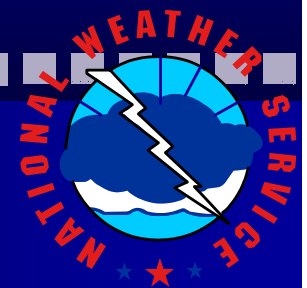
NWS SR Internet Site

www.srh.weather.gov

- Serves as a one-stop source of weather information.
- Developed with the both - partners and general users - in mind.
 - **Easy navigation**
 - **Data given in the manner you need it.**
- Increases public awareness and response to valuable NWS 24/7 products and services.



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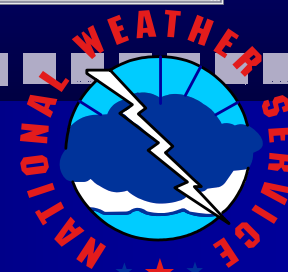


NWS SR Internet Site

- Forecasts obtained by either **postal zip code**, **city/state search**, or by **point and click map**
- Weather Information in clear, concise format
- Emphasizes local WFO expertise

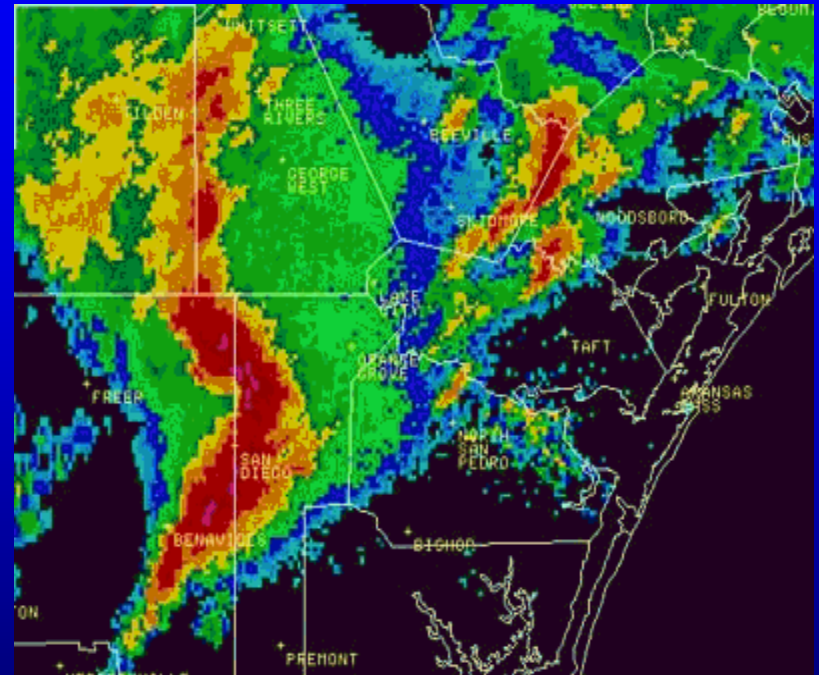


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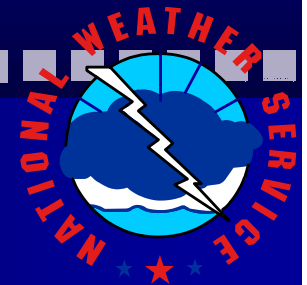


Radar Images

- Available as a time loop for all Weather Service Radars in the U.S.
- Provides real time storm development, movement, and precipitation information



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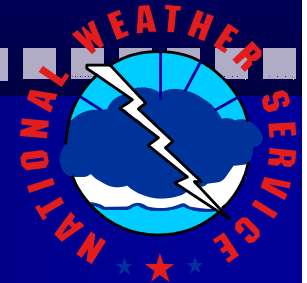
Local Convective Watches

- **Watch County Notification (WCN) Product**

- **County Specific** - Tornado & Severe Thunderstorm (convective) Watches from your local experts at the WFO.
- **Updates** - Expansion and cancellation of Watches by counties from your local WFO.
- **Status** - Software testing underway.

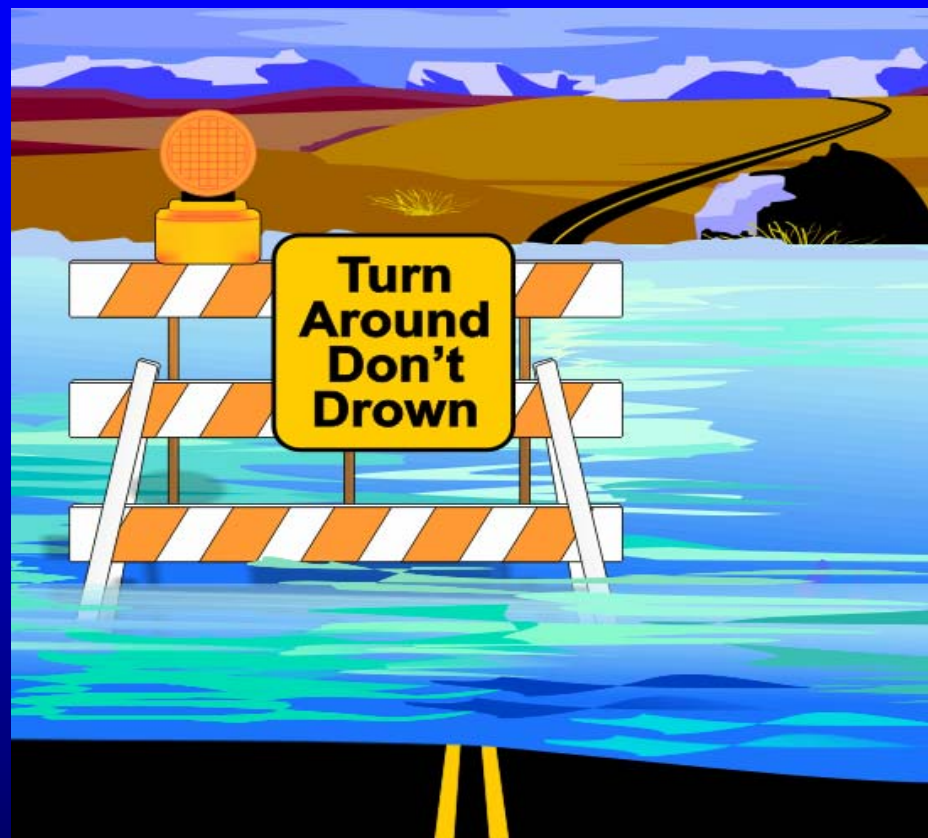


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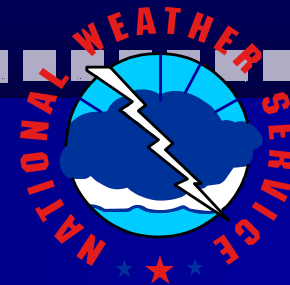


Turn Around Don't Drown™

- Flood and Flash Flood Safety Campaign
- Over 30 partners representing local, regional, and national organizations
- Launched in May 2003



www.srh.weather.gov/tadd
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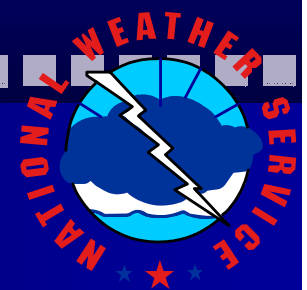


StormReady®

- Grass roots start in Tulsa - 1998
- Expanded nationally in 2000
- 800+ nationwide sites
- Significantly helps improve weather preparedness

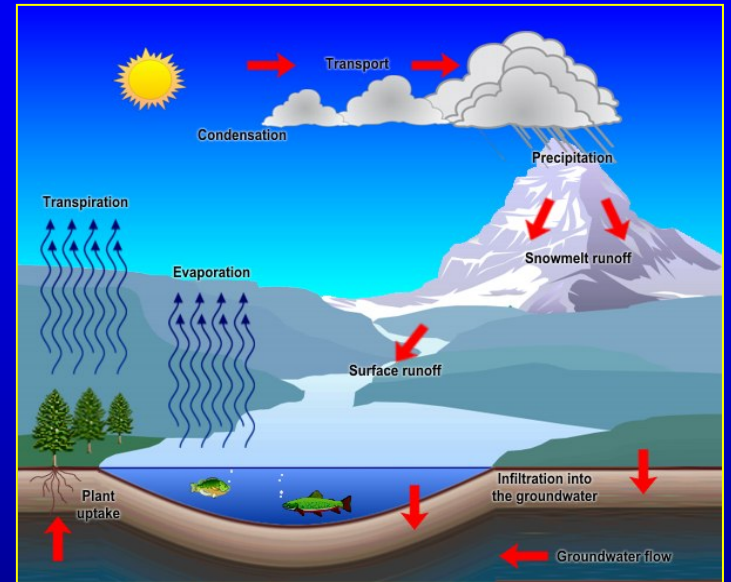


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Project JETSTREAM

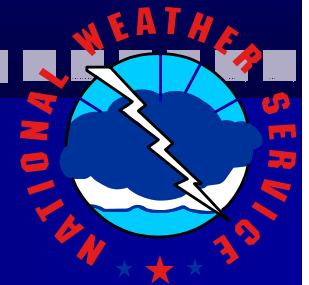
- A weather learning tool for EM, aviation and marine communities, teachers, students and general public.
- Includes weather dangers, preparedness & safety tips.
- Includes all areas of weather from thunderstorms to winter storms.



www.srh.weather.gov/jetstream

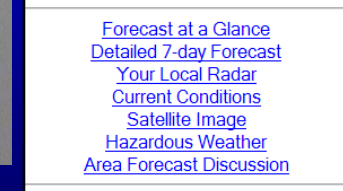
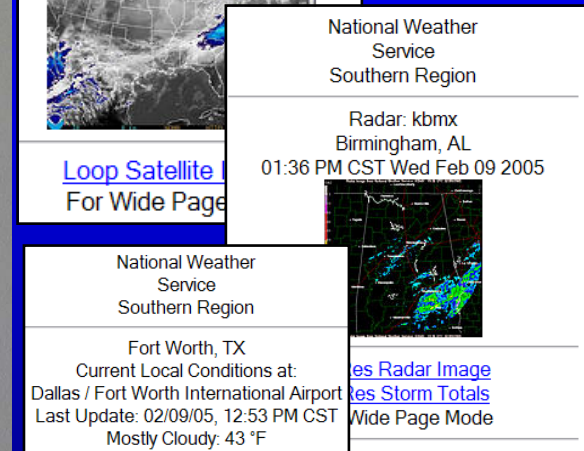
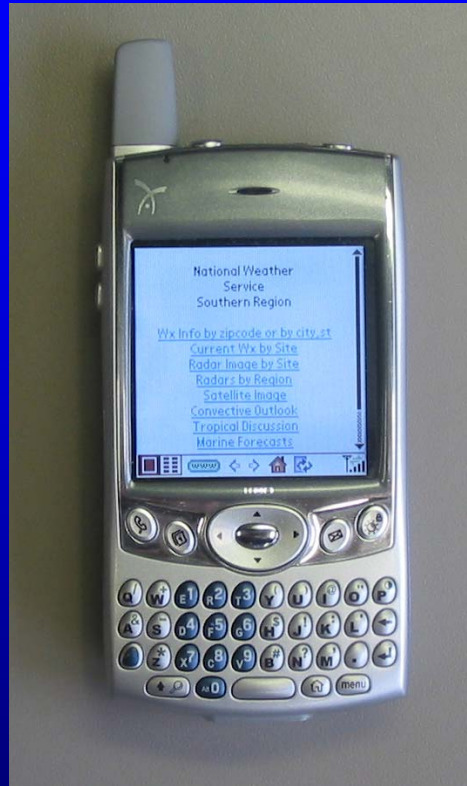


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Mobile Weather

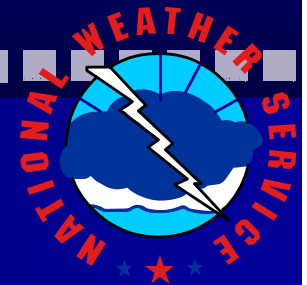
All the weather
information you
need is now
available on
mobile devices!



www.srh.weather.gov/wml

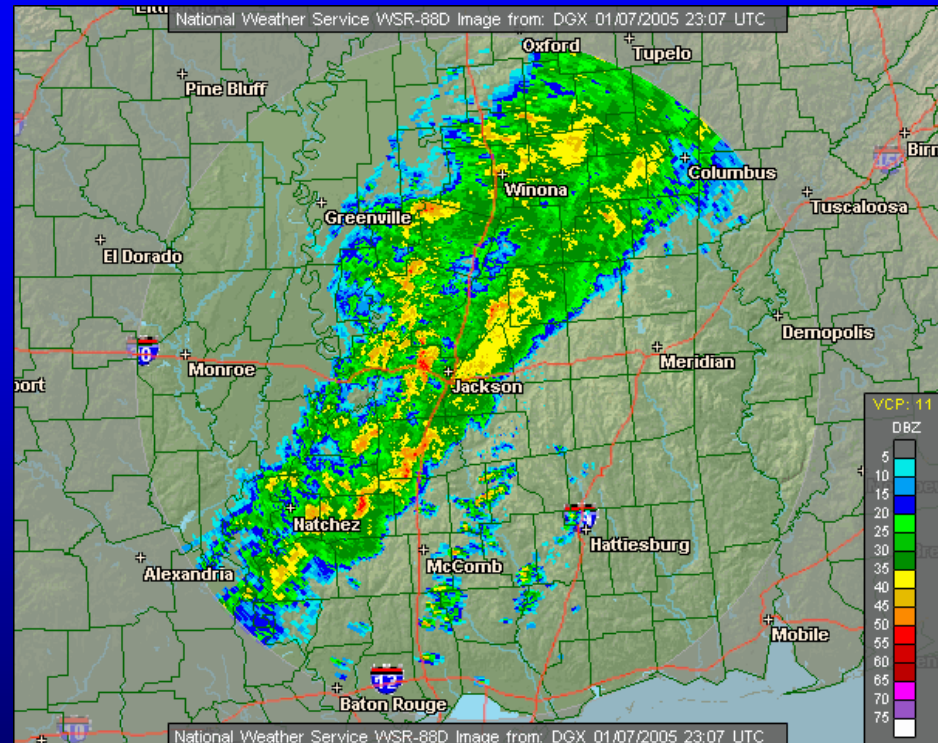


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Experimental Radar

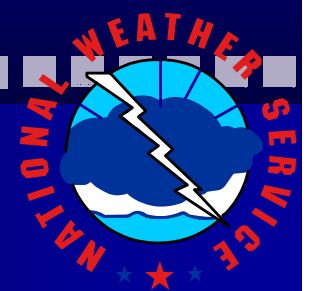
- Overlays radar with geospatial elements
- Ingests into GIS applications



www.srh.weather.gov/ridge



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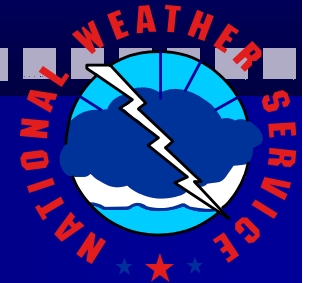
The Future of the NWS

“Forecast improvement will be through mesoscale (*local scale*) decision making, and sensible weather elements”

- Most NWS users want to know weather and climate information.
- With use of local models and expertise, we will be able to meet increasing public and private partner needs for accuracy



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**“...government closest to the people,
governs best.”**

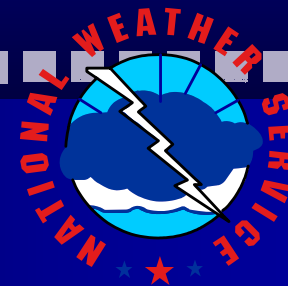
- President George W. Bush

As epitomized by the NWS:

**...government closest to the people,
serves best!**



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Questions?

Bill.Proenza@noaa.gov

(817) 978-1000

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At Left Margin Click on:

Welcome from the Director

At Left Margin Click on:

“Feb. 2005 NEMA Conference”



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